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Examiner: Lisa Hashem

AMENDMENT TO THE CLAIMS

1. (currently amended) A system exchange method for automatically providing at least one system attribute to one or more Voice-over-Internet Protocol (IP) devices in a network, the method comprising the steps of:

(a) automatically sending a Voice-over-IP device identification message from the one or more Voice-over-IP devices to a node when the one or more Voice-over-IP device is operably coupled to the node;

(b) automatically responding with a device identification acknowledgement message from the node to the one or more Voice-over-IP devices, the device identification acknowledgement message comprising one or more system attributes, including connectivity information; and

~~(c) each of the one or more devices having a physical locality, wherein the system attribute including connectivity information associated with the physical locality of the one or more devices.~~

(c) conveying the connectivity information from the one or more Voice-over-IP devices to a private branch exchange system that maintains a relation database; and

(d) associating the connectivity information at the relation database with a geographic location of the one or more Voice-over-IP devices.

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2. (previously amended) The system attribute exchange method of claim 1, wherein the device identification acknowledgment is a Voice-over-IP device identification acknowledgment message.
3. (previously amended) The system attribute exchange method of claim 2, wherein the one or more system attributes comprises a Virtual Local Area Network (VLAN) identification assigned to Voice-over-IP communications.
4. (original) The system attribute exchange method of claim 2, wherein the node is a switching device, and the one or more system attributes comprise a switching device identification as well as a port identification of a port to which the Voice-over-IP device is connected.
5. (previously amended) The system attribute exchange method of claim 3, wherein the one or more Voice-over-IP devices comprise one or more Internet Protocol (IP) phones.
6. (original) The system attribute exchange method of claim 3, wherein the Voice-over-IP device is operably coupled to the node at the time of initialization of the Voice-over-IP device.

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7. (original) The system attribute exchange method of claim 3, wherein the Voice-over-IP device identification message and the Voice-over-IP device identification acknowledgment are Attribute Advertisement Protocol messages.
8. (original) The system attribute exchange method of claim 7, wherein a destination address of the Voice-over-IP device identification message includes a unique medium access control (MAC) address indicative of a system attribute exchange between the Voice-over-IP device and node.
9. (original) The system attribute exchange method of claim 3, wherein the Voice-over-IP device identification message is sent in response to a node initialization message.
10. (original) The system attribute exchange method of claim 9, wherein the node initialization message is a switching device initialization message transmitted by a switching device upon the initialization thereof.
11. (canceled)
12. (original) The system attribute exchange method of claim 1, wherein the system attribute comprises connectivity information pertaining to physical connection of the one or more Voice-over-IP devices at the node.

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13. (previously amended) The system attribute exchange method of claim 12, wherein one or more system attributes are transmitted to a relation database that associates at least one port number to its geographic location, whereby the physical location of the one or more devices is determined from the IP address of the Voice-over-IP device.

14. (previously amended) The system attribute exchange method of claim 13, wherein a storage device is included in an Internet Protocol (IP) private branch exchange (PBX) system that cooperates with the Voice-over-IP device to provide voice communications.

15. (original) The system attribute exchange method of claim 1, wherein the node is a switching device.

16. (original) The system attribute exchange method of claim 15, wherein the switching device is adjacent to at least one of the one or more devices.

17. (original) The system attribute exchange method of claim 15, wherein at least one of the one or more devices is a Voice-over-IP device.

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18. (original) The system attribute exchange method of claim 17, wherein at least one of the one or more system attributes is a VLAN identification substantially dedicated to Voice-over IP communication within the network.

19. (original) The system attribute exchange method of claim 18, wherein the switching device is made aware of the VLAN identification via a VLAN registration protocol.

20-26. (canceled)

27. (previously amended) The system attribute exchange method of claim 8, wherein the media access controller (MAC) address is a broadcast MAC address.

28. (original) The system attribute exchange method of claim 8, wherein the MAC address is a multicast MAC address.

29. (previously amended) The system attribute exchange method of claim 19, wherein the VLAN registration protocol is the Group Address Resolution Protocol (GARP) VLAN registration protocol.

30. (previously amended) The system attribute exchange method of claim 12, wherein one or more system attribute are transmitted to a relation database that associates at least one port

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number to its geographic location, whereby the physical location of the one or more devices is determined from the MAC address of the Voice-over-IP device.

31-37 (canceled)

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